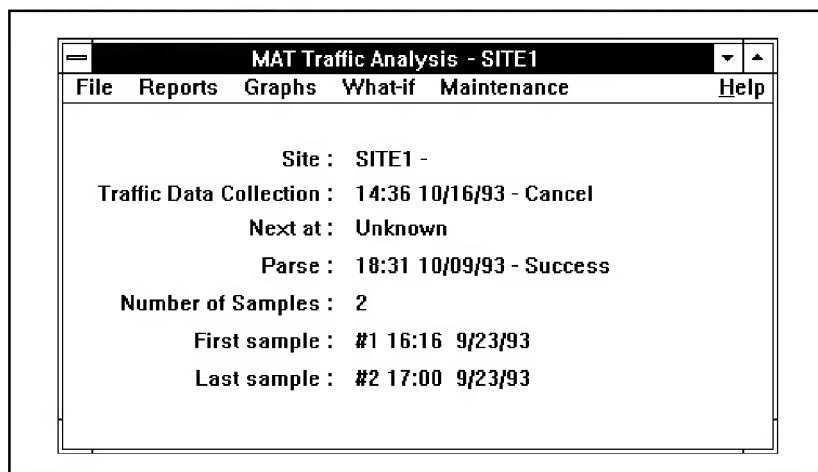

User Interface

This chapter explains each of the windows and dialogs used in the MAT Traffic Analysis application.

Traffic Analysis window

To access MAT Traffic Analysis, double-click on the Traffic Analysis icon in the Meridian Administration Tools window. The Traffic Analysis window appears—see Figure 2.

Figure 2
Traffic Analysis window



The menu bar contains the following menus:

- File
- Reports
- Graphs
- What-if
- Maintenance

File menu

Use the File menu to open and close communications with a specific site, set up your output device, and exit from the application.

Open Site... presents a dialog in which you select the site with which you want to establish communications.

Close Site closes the communications connection with the current site.

Printer Setup... presents a dialog in which you select the printer for reports and graphs.

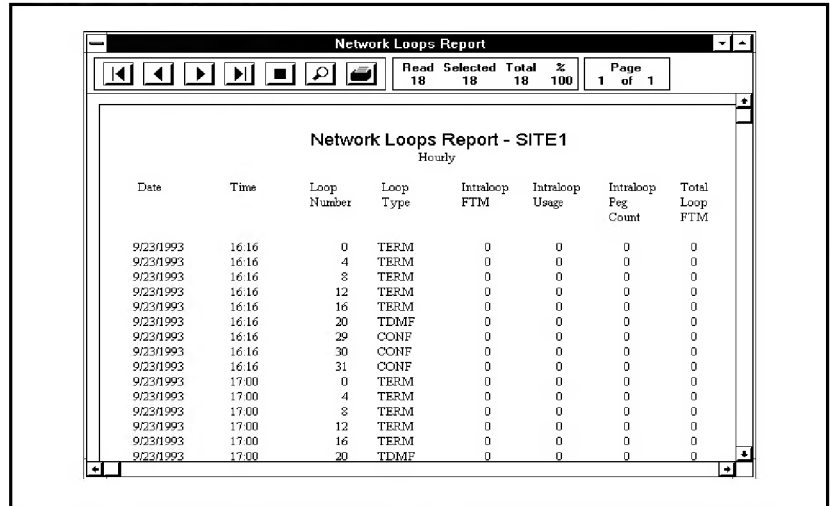
Note: You must set up printer information using Printer Setup from the Windows Control Panel *before* you attempt to print a report to *any* output device, even the screen. The screen and printer output devices require that a printer be selected in Windows.

Specify output device... presents a dialog in which you choose whether a report or graph is to be sent to the display screen or the printer.

If you select **Screen** as the output device, reports and graphs appear in a window that provides buttons and scroll bars to scan through the report, as shown in Figure 3. You can send the displayed report to the printer by clicking on **Printer**.

Exit closes Traffic Analysis and returns to the operating system.

Figure 3
Sample report window



Reports and Graphs menus

Use the Reports and Graphs menus to request information on the traffic data collected from the Meridian 1. The two menus contain similar selections, except that the Reports menu items produce reports, and the Graphs menu items produce graphs. The process of requesting and tailoring these two forms of output are similar.

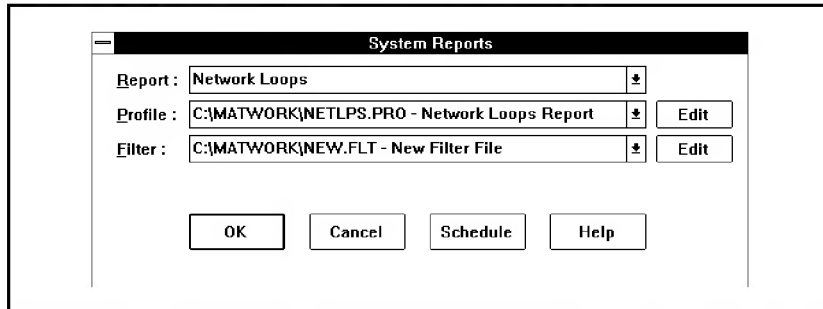
Printing reports and graphs

To generate a report or graph, open the appropriate menu and select one of the following categories:

- System Reports (or Graphs)
- Customer Reports (or Graphs)
- Customer Network Reports (or Graphs)
- System Threshold Reports (or Graphs)
- Customer Threshold Reports (or Graphs)
- Customer Summary Reports

A dialog like that shown in Figure 4 appears.

Figure 4
System Reports dialog



Click on the down arrow button to display a list of the reports or graphs in that category. Each entry in the list has one or more associated profiles and filters. After you click to select a report (or graph), you use the same process to select the appropriate profile and filter. Edit buttons beside the Profile and Filter boxes let you review and modify the selected profile and filter.

Editing a profile

Profiles define the kind of information to include in a report or graph. Each report or graph requires at least one profile. Traffic Analysis includes several default profiles for commonly-used reports and graphs. You can define a new profile by editing one of the default profiles and saving your work under a new profile name. Profile file names use the **.PRO** extension.

Select a profile by clicking on the down arrow beside the Profile text box, and clicking on a profile name in the resulting list. Your choice is highlighted. Click on **Profile Edit** to open the Profile Editor dialog. It contains the following information:

Description: Type a description for this profile. The description appears with the profile file name in dialogs to help you identify a specific profile. For example, one of the default profiles has the description “Network Loops Report,” and appears as:

NETLPS.PRO - Network Loops Report

Options: Select from the list of options for this report (or graph). In the default profiles, all options are highlighted to show that they are selected. To deselect an item, click on it—the highlighting disappears.

Parameters: Select an item in the Parameters list to access a Content dialog in which you can edit the parameter value. For example, to report only on Loop Number 1, click on **Loop Number** in the Parameters list. In the Content dialog, type the digit **1**. Click on **OK** to save the new parameter value and return to the profile selection dialog.

While selecting parameters for the Customer Reports profile, you can select individual customers by selecting the number next to that customer in the Parameters list. You can also select all customers by selecting the option * **All**. The Customer Graphs can report on only a single customer at a time. Therefore, you can select only a single customer for the graph in the Parameters list for the Customers Graphs profile. Notice that there is no selection for * **All** in the Parameters list.

After you have selected the options and parameters for this profile, open the File menu. Click on **Save As** to save the modified profile in a new file. In the File Save dialog, select the **File Name** field and type in the new file name (with an extension of **.PRO**). When you return to the report category dialog, you can select your new profile to be used with this report.

To select a profile file that is not in this list, click on **Other** from the list. In the Select File dialog that appears, select the profile file to be included in the list.

Using a filter

Filters define the range of traffic data to be included on a report or graph, such as data for a specific month. To select a filter, click on the down arrow beside the Filter text box, and click on the filter name in the Filter list. Your choice is highlighted.

To edit a filter, click on the **Filter Edit** button next to the Filter text box. The Filter Editor dialog appears. It contains the following information:

Description: Type a description for this filter. The description appears with the filter file name in dialogs to help you identify a specific filter. For example, one of the default filters has the description “Working Hours Only,” and appears as:

SAMPLE3.FLT - Working Hours Only

Date: In the Date fields, enter up to five date ranges for traffic data. Use the form MM/DD. Click on **Include** or **Exclude** to include or exclude traffic data that falls within the specified date ranges. For example, to include only July traffic data, enter **07/01** and **07/31** in the first pair of date fields, and click on **Include**.

Time: In the Time fields, enter up to five time ranges for traffic data. Use the form hh:mm. Click on **Include** or **Exclude** to include or exclude the traffic data that falls within the specified time ranges.

Working with Filter files

Save, Save As: To save this filter using the current file name, open the File menu and select **Save**. To save this filter using a different file name, select **Save As** from the File menu. In the Save As dialog, enter the new file name (with an extension of **.FLT**).

After you have edited and saved the filter file, you return to the Category dialog, where you can click to request that your new profile be used with this report or graph.

Other: To select a filter file that is not in this list, click on **Other** from the list. In the Select File dialog that appears, select the filter file to be included in the list.

Delete: Use **File - Delete** to delete a filter file from your system. The Delete File dialog prompts you to enter the file to delete. Enter the filename and click on **OK**. A second prompt box allows you to verify that you wish to delete the filter. Click on **OK** to delete the filter.

After you have completed your work with Profiles and Filters, click on one of the following buttons to proceed:

OK to produce the report or graph

Schedule to specify the time at which the report or graph is to be produced

Help to obtain help for this function

Cancel to cancel the request and return to the previous dialog

Scheduling your report or graph

To schedule the report or graph for printing at a specific date and time, click on **Schedule**. This accesses the MAT Scheduler and presents the Event Selection dialog. Enter a new event name by clicking on **New** and typing the event name. The Event Configuration dialog opens, listing the selected report or graph name in the Description field. If you toggle to Command (by clicking on **Description**), the Scheduler displays the command that Traffic Analysis will issue to print the output.

Note: You can schedule an event separately by accessing the Scheduler and entering the report's command line (if known).

Click on **Add** to select this task; it appears in the Description/Command box.

Click on the **Date** and **Time** fields and select the initial date and time for the report or graph to be run. Click on the appropriate interval button (such as **Daily**) to specify any subsequent executions.

The report or graph will be prepared at the date and time you scheduled. Close the Scheduler to return to the category dialog. Repeat these steps for each output you want to schedule. For more details on the Scheduler, refer to "Scheduler" in the *MAT Common Services User Guide*.

When you have printed or scheduled the output, you return to the Traffic Analysis window, from which you can request another report or graph.

Exporting reports

The Traffic Analysis Export function exports traffic data from its reports to disk files in specific formats. These files can then be imported and used by other database, spreadsheet, or word processor programs. Each report generated to screen can be exported to a file so that only the required data will be exported.

Similar to the exporting function, the mail attachment command allows you to export the reports as attachments directly to a Microsoft Mail file.

Note: You must set the output device to Screen to use the Export function.

To export a specific report to a file, perform the following steps:

- 1 Generate the report to screen using the Traffic Analysis reporting function. The report will be displayed in the Report dialog.
- 2 To export this report to a file, click on the **Export** command button. The Export dialog will appear allowing you to select the format and destination of this file.
- 3 From the Format drop-down list box select the format of this file (e.g., **Excel 3.0**).
- 4 From the Destination drop-down list box, click on **Disk file**.
- 5 Click on the **OK** command button to export this report.
- 6 The Choose Export File dialog will appear with a default name and extension for this file (e.g., **NETLPS.XLS**). Enter the desired destination drive and directory (e.g., **C:\MATWORK\MATSAMPL**) and click on the **OK** command button. This will export this report to this file.

Mail Attachment

Similar to the Export command, the Mail Attachment command allows you to export the selected report and attach it directly to an email message.

To attach the report to an email message, perform the following steps:

- 1** Click on the **Attach** command button. The Export dialog will appear with the Destination drop-down list box defaulting to the email profile installed on your system (e.g., **Microsoft Mail (MAPI)**).
- 2** From the Format drop-down list box select the format of this file (e.g., **Excel 3.0**).
- 3** Click on the **OK** command button to export this report.
- 4** In the Choose Profile dialog which appears, select the desired profile name (e.g., **Microsoft Exchange settings**) and click on the **OK** command button .
- 5** The Send Mail dialog will appear allowing you to enter the details for this email message (e.g., recipient, subject and comments). Enter this information in the available fields and click on the **Send** command button to attach this file. You can then access the email server to send this email message.

Reports menu

This section lists the selections on the Reports menu, and the reports you can request from each. For more details on these reports, refer to “System reports” on page 49.

System reports

- Network Loops
- Service Loops
- Dial Tone Delay
- Processor Load
- Selected Terminals
- Junctor Group
- Command and Status Links and Application Module Links
- D-Channel
- Multi-Purpose ISDN Signaling Processor Traffic

- Multi-Purpose ISDN Signaling Processor DCH Management
- Multi-Purpose ISDN Signaling Processor Messages

Customer reports

- Networks
- Trunks
- Customer Console Measurements
- Individual Console Measurements
- Feature Key Usage
- Radio Paging
- Parallel Radio Paging
- Serial Radio Paging
- Call Park
- Messaging and Auxiliary Processor Links
- Output Message Traffic
- Input Message Traffic
- Message Attendant Queue
- Telephone Set Status
- Telephone Messaging
- Network Attendant Service

Customer network reports

- Route Lists
- Off Hook Queuing
- Call Back Queuing
- Remote Virtual Queuing
- Network Class-of-Service
- Incoming Trunk Group

System threshold reports

- Dial Tone Speed
- Loop Traffic
- Junctor Traffic
- Super Loop Traffic

Customer threshold reports

- Incoming Matching Loss
- Outgoing Matching Loss
- Average Speed of Answer
- Percent Last Trunk Busy
- Off-Hook Queue Overflow Threshold

Customer summary reports

- Traffic System Summary
- Trunks Summary
- Customer Console Summary
- Individual Console Summary

Graphs menu

This section lists the selections on the Graphs menu, and the graphs you can request from each. For more details on these reports, refer to “System reports” on page 49.

System graphs

- Network Loops
- Processor Load

Customer graphs

- Trunks

- Customer Console Measurement
- Messaging and Auxiliary Processor Links

Customer network graphs

- Route Lists
- Off Hook Queuing

System threshold graphs

- Loop Traffic
- Super Loop Traffic

Customer threshold graphs

- Percent Last Trunk Busy

“What-if” menu

In addition to generating reports and graphs, you can use Traffic Analysis to ask “What if?” questions on data output from the Meridian 1. You do this by defining scenarios and viewing hypothetical results. These “What if” scenarios provide different results based on new situations that you input into the system.

To define a scenario, you select it from the list of available scenarios. Next, select a profile to define its contents and a filter to set a range for its data. This process is identical to producing a report or graph. You can define the following “what if” scenarios:

- Processor Load
- Trunk
- Attendant Console

To access this function, open the What-if menu in the Traffic Analysis window. A dialog like the one shown in Figure 5 appears.

Figure 5
“What-if” dialog

The screenshot shows a dialog box titled "What-if". It contains three main sections: "Scenario", "Profile", and "Filter". Each section has a dropdown menu and an "Edit" button. The "Scenario" dropdown is set to "Processor Load". The "Profile" dropdown is set to "WPRCLD.PRO - What If Processor Load Report". The "Filter" dropdown is set to "None". At the bottom of the dialog are three buttons: "OK", "Cancel", and "Help".

Click on the down arrow button to display a list of the scenarios available. Each entry in the list has one or more associated profiles and filters. After you click to select a scenario, you use the same process to select the appropriate profile and filter. **Edit** buttons beside the Profile and Filter boxes let you review and modify the selected profile and filter, as described “Editing a profile” on page 18 and “Using a filter” on page 19.

After you have completed your work on the profile and filter, run the scenario by clicking on **OK**. The following sections describe each scenario in detail.

Processor load scenario

The Processor Load scenario provides information on rated capacity for your Meridian 1. It lists overall and itemized information on the busy hour and the number of attempts at the busy hour rate over the rated capacity. It allows you to adjust the call attempts or the CPU type, and view the resulting change in busy hour CPU loading time.

Note: In the filter for this scenario, enter a range with a minimum of 24 hours to make the scenario data valid.

When you click on **OK** to request this scenario, the Processor Load Scenario dialog appears, as shown in Figure 6.

Figure 6
Processor Load scenario dialog

Processor Load

Current Configuration

Current CPU : 61

Rated Capacity [Calls/Hour] : 21209

Busy Hour : 30/11/1993 10:44

Busy Hour CPU Loading (%) : 0.77

CPU Option

61

Rated Capacity

21209

Adjust Call Attempt Values (%)

10

☒ Up ☒ All

☐ Down ☐ Selected

Adjust

Date	Time	Current Attempts	Current %Loading	Adjusted Attempts	Adjusted % Loading
30/11/1993	00:44	33	0.16	125	0.59
30/11/1993	01:44	63	0.30	239	1.13
30/11/1993	02:44	94	0.44	357	1.68
30/11/1993	05:44	75	0.35	285	1.34
30/11/1993	06:44	11	0.05	42	0.20
30/11/1993	07:44	2	0.01	8	0.04
30/11/1993	08:40	5	0.02	19	0.09
30/11/1993	08:40	5	0.02	19	0.09
30/11/1993	08:40	5	0.02	19	0.09
30/11/1993	10:44	163	0.77	619	2.92
30/11/1993	08:40	5	0.02	19	0.09
30/11/1993	10:44	163	0.77	619	2.92

Reset

Print

Graph

Cancel

Help

This dialog includes the following information:

Current CPU: The numeric ID of the Meridian 1 CPU

Rated Capacity (Call/Hour): The number of calls per hour that the processor can handle

Busy Hour: The hour (date and time) with the greatest number of call attempts

Busy Hour CPU Loading (%): The number of attempts at the busy hour

This dialog also presents a record-by-record account of traffic dumps, with the date, time, current call attempts, current percentage loading, adjusted call attempts, and adjusted percentage loading.

If you change the CPU Option number or the Adjust Call Attempt values and click on **Adjust**, the adjusted call attempts and percentage loading columns change to reflect the changed environment.

Adjust the number of call attempts by entering the percentage difference in the Adjust Call Attempt Values field and by clicking on the **Up** or **Down** button. Click on **All** or **Selected** to highlight the specific traffic records in the list box that are to be adjusted. To change the CPU Option number, click to select the new CPU from the CPU Option list box.

For example, to view the effect of a 10% increase in the current call attempts for all call records, enter **10** in the Adjust Call Attempt Values field, select **Up** and **All**, and click on **Adjust**. The values in the Adjusted Call Attempts and Percentage Loading columns change accordingly.

To reset the adjusted values to the current values, click on **Reset**. To print a report of this information, click on **Print**. To print a graph of this information listing percentage loading versus the date or time, click on **Graph**. To exit this scenario, click on **Cancel**.

Trunk scenario

The Trunk scenario allows you to determine the offered traffic, monthly cost, and probability of blocking a trunk or a set of trunk groups. Use this scenario to change the offered traffic or the probability of trunk blocking and view the results for the trunks.

Before you view this scenario, you must edit its profile information. Select a profile for this scenario and click on **Profile Edit**. In the Profile Editor, enter the **Monthly Cost/Trunk** and the **Route Number**. Select **Save** from the File menu to save your work and return to selection dialog.

Select a filter that specifies the range of data for this scenario and click on **Filter Edit** to enter the date and time range. Select **Save** from the File menu to save your work and return to the selection dialog.

After you have completed your work with the profiles and filters, click on **OK** to run this scenario. The Trunk scenario dialog appears as shown in Figure 7.

Figure 7
Trunk scenario dialog

Current Configuration	
3	Route Number
1	# of Trunks
5.9167	Offered Traffic [Erlangs]
10	Monthly Cost / Trunk
\$10.00	Total Monthly Cost
99.73	Prob. of Blocking [%]

Before you attempt to generate a scenario for this collected traffic, you must select a traffic time frame. To view data for a specific hour, click to select an hour from the Specific Hour list box and click on the button next to it. To view data for the busiest hour in the traffic data, click on **Busy Hour**. This also displays the date and time of the busy hour.

Select the following options to use in generating a scenario:

Units of Measure: Select Seconds, CCS, or Erlangs by clicking on the button next to the appropriate unit of measure. This affects the Offered Traffic values.

Engineering Method: Select Poisson, Erlang B, or Erlang C by clicking on the option button next to the engineering method. This affects the Probability of Blocking values.

The following information, which is the actual result based on the traffic collected from the Meridian 1, appears for the hour you selected:

Route Number: The route number for the listed trunks, entered in the scenario profile

Trunks: The number of trunks being used in this scenario

Offered Traffic: The traffic for this time segment measured in seconds, CCS, or Erlangs

Monthly Cost/Trunk: The cost per month for each trunk, entered in the scenario profile

Total Monthly Cost: The total monthly cost for the trunks based on the time frame

Probability of Blocking: The probability that a call will not be connected, expressed as a percentage.

The next section of the dialog provides the following options to change traffic information and view different results:

- Monthly Cost/Trunk
- Trunks
- Offered Traffic
- Probability of Blocking

Simply type in a new Monthly Cost/Trunk value. To change one of the remaining values, complete the following steps:

- 1** Click on the button next to the value you wish to calculate (**Trunks**, **Offered Traffic**, or **Probability of Blocking**).
- 2** In the other fields, type in the new values.
- 3** Click on **Calculate** to calculate the results for the value you selected based on the new values.

Repeat these steps for the different values you wish to test. Click on **Reset** to reset the values to the original collected values. Click on **Print** to print a report showing the current trunk information and the “What if” scenario. Click on **Cancel** to exit from this scenario.

Attendant console scenario

The Attendant Console scenario provides information on console response and service levels. Use this scenario to change response times and service levels and view the results.

To access this scenario, select **Attendant Console** in the Traffic Analysis window's What-if menu. Select a profile for this scenario and click on **Edit**. In the Profile Editor dialog, enter the following information:

- Attendant ID
- Customer Number

Save the profile and return to the scenario selection dialog. Click on **OK** to open the Attendant Console scenario dialog, as shown in Figure 8.

Figure 8
Attendant console scenario dialog

Current Configuration	
1	Attendant Consoles
6.33	Avg. Number of Calls / Hour
1.12	Avg. Speed of Answer [seconds]
15.05	Avg. Attendant Service Time [seconds]
2.46	Probability of Calls Being Delayed More Than Avg. Speed of Answer.
0.0265	Offered Traffic [Erlangs]

Select The Item You Wish To Calculate And Click Calculate

1	☐ Attendant Consoles
6.33	☐ Avg. Number of Calls / Hour
1.12	☐ Average Speed of Answer [seconds]
15.05	☐ Avg. Attendant Service Time [seconds]
2.46	☒ Probability of Calls Being Delayed More Than Avg. Speed of Answer.
0.0265	☐ Offered Traffic [Erlangs]

Units of Measure
☐ CCS
☒ Erlangs

The following information appears:

Attendant Consoles: The number of consoles (and therefore attendants) under review.

Average Number of Calls: The total number of calls averaged over the number of attendant consoles.

Average Speed of Answer: The average time to answer a call across the attendant consoles.

Average Attendant Service Time: The average service time for the attendants (that is, the time taken for the attendant to respond to and act on the call) across the attendant consoles.

Probability of Calls Being Delayed by More than Average Speed of Answer: The probability that a new call will be delayed longer than the average speed of answer.

Units of Measure: Click to select the unit of measurement for the answer and service times:

Seconds

CCS

Erlangs

The next section of the dialog provides the following options to change response time and service level information and view different results:

Attendant Consoles

Average Number of Calls

Average Speed of Answer

Average Attendant Service Time

Probability of Calls Being Delayed by More than Avg. Speed of Answer

Click on the button next to the value you wish to calculate. When you click on a button, its value appears dimmed. You can select only one option to calculate. In the other fields, type the values to use in the new calculation. Click on **Calculate** to display new results.

To reset these totals to their original state, click on **Reset**. To print a report for the current configuration, click on **Print**. To exit from this scenario, click on **Cancel**. You return to the scenario selection dialog, where you can click on **Cancel** to return to the Traffic Analysis window.

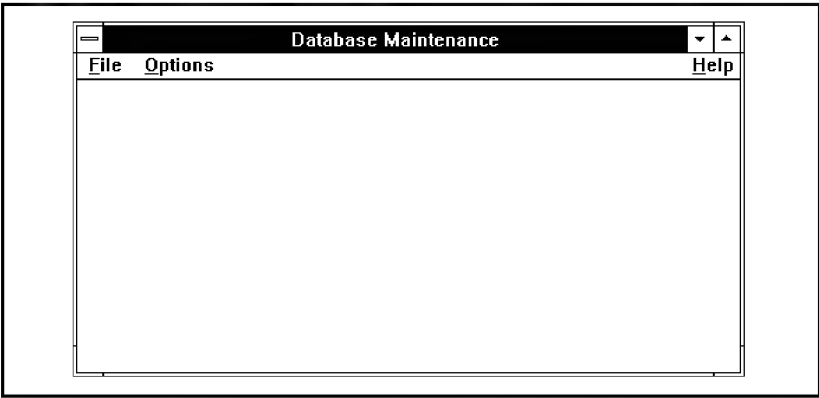
Maintenance menu

MAT Traffic Analysis provides maintenance functions to collect traffic data manually, edit system information, log events, and schedule tasks. Use the following menu selections to perform general maintenance of your system. After you have set up your system, you access these functions only when it is necessary to edit or correct your traffic data.

Traffic Database

Select **Traffic Database** to archive a range of traffic data, or backup and restore traffic data files. The Database Maintenance window appears as shown in Figure 9.

Figure 9
Database Maintenance window



The File menu includes selections to **archive**, **merge**, **re-index**, and **group** traffic database files. The Options menu includes a **Log** selection that logs events to the MAT History File.

To close this window and return to the Traffic Analysis window, double-click on the control-menu box in the upper left corner of the window or select **Exit** from the File menu. For complete details on using the File and Options menu selections, refer to “Database Maintenance” on page 41.

Traffic Data Collection

Select Traffic Data Collection to initiate data collection from the current site’s Meridian 1. You can use this function to set up the Meridian 1 for traffic data collection or to schedule traffic data collection. After you have initiated data collection, the system uses the MAT Common Services Communications Supervisor and Communications Server to connect to the Meridian 1 and collect traffic data.

When you select **Traffic Data Collection** from the Maintenance menu, the Traffic Data Collection dialog appears, displaying the configuration information for your system:

Site: The current site being polled, selected with **Open Site**.

Username: The **User Name** entered when you logged onto MAT.

Port: The communications port on your PC connected to your site’s Meridian 1 (directly or via modem).

Device: The communications device (modem) used in connecting to the Meridian 1.

Interval: The date or time interval for scheduled traffic data collection, such as hourly on the hour. Click on the following check boxes to set up the Meridian 1 for traffic collection and schedule the traffic collection.

Set up PBX for Traffic: Initialize the Meridian 1 for traffic data output.

Schedule Traffic Collection: Set up the Scheduler for traffic collection at subsequent intervals.

Schedule Traffic Parse: If doing a data collection from MAT Call Accounting, then turn this check box on to parse the traffic file after a data collection has occurred.

Filter: Use the Filter Editor function to set up any additional filters for scheduled traffic data collection. This is useful if you wish to prevent the scheduled hourly traffic data collection from occurring at specified days or times.

The Filter list box is activated when you click on the Scheduled Traffic Collection check box. The Filter list box allows you to select a filter for traffic data collection. Click on the filter name in the Filter list box and click on **Edit** to use the Filter Editor on that filter. You can also select **None** from this list to have no filters defined. From the Filter Editor dialog, you can set up the date and/or time ranges to include or exclude for this filter data collection.

For example, to set up a filter to suppress traffic data collection between 12:00 AM and 8:00 AM, select **Other** from the Filter list box and click on **Edit**. Enter a filename for this filter in the Filter Editor dialog. Enter **12:00** and **8:00** in the first Time Filter fields. Click on **Exclude**. Save this filter file to return to the Traffic Data Collection dialog with this filter selected.

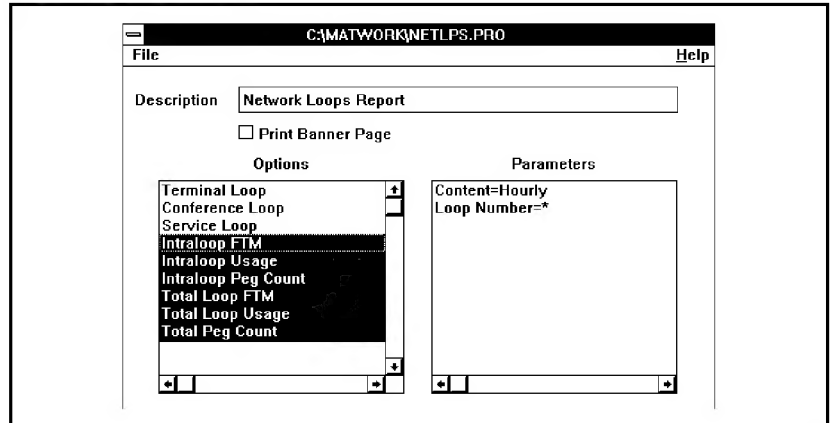
Click on **OK** to proceed. MAT Traffic Analysis will automatically collect traffic data at the scheduled intervals. Click on **Cancel** to exit from this dialog without initiating data collection.

Profile Editor

Every report or graph requires a profile that defines the data to include in a report or graph. MAT provides default profiles for many common reports and graphs. Use the Profile Editor to view and edit the options and parameters in a profile. You can also use profiles to store and manage sets of configuration and customization information.

Select **Profile Editor** from the Traffic Analysis Maintenance menu. In the Profile Editor window that appears, select **Open** from the File menu. The Open File dialog appears, listing the available profiles (whose extension is **.PRO**). To edit an existing profile, double-click to select it. A Profile Editor dialog appears, as shown in Figure 10, showing the profile's description, options, and parameters.

Figure 10
Profile Editor dialog



Use the following fields to enter profile information:

Description: In this field, enter a description for the profile. If this profile is used as a report profile, the text in this field will appear as the title of the report.

Print Banner Page: Click to add a printed banner page to the beginning of the report.

Options: Click to select or de-select options in the list of available options. Selected options are highlighted.

Parameters: Select an item in the Parameters list to access a Content dialog in which you can edit the parameter value. Type or highlight the desired value for the parameter and click on **OK**.

Number Range: Some reports may contain a range of numbers (such as Loop Number) that defines data to be included. For example, you may wish to only report on loop numbers from 1 to 20. Click on the number item and type in the number for the range. Click on **OK**.

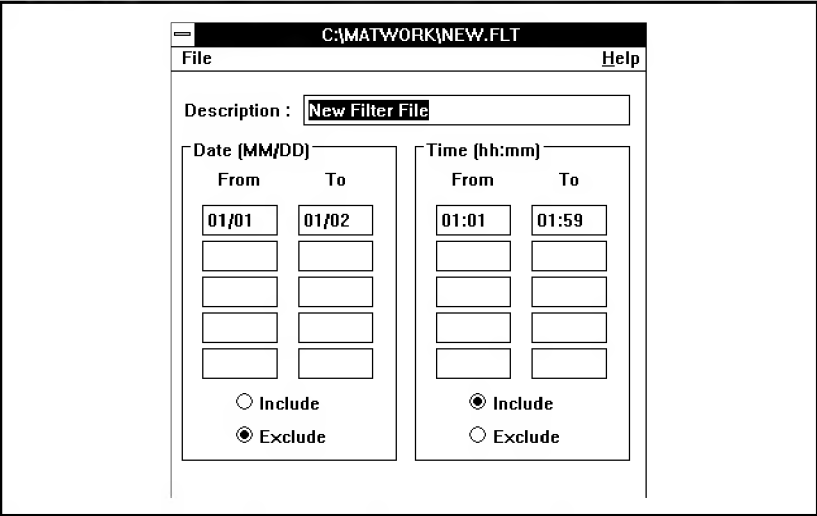
To save a profile, click on **Save** from the File drop-down menu. To save the profile to a new name, click on **Save As** from the File drop-down menu and type in the new file name. Click on **OK** to save this file.

Note: When you save a profile file, it can only be saved as a profile file (extension **.PRO**); not a template file. Template files are system default files which cannot be edited and saved. You must save them as profile files.

Filter Editor

Filters define the range of traffic data to be included in a report or graph. The Filter Editor allows you to create or edit report filters. To access this editor, select **Filter Editor** from the Traffic Analysis Maintenance menu. To open a filter file, open the Filter Editor File menu and select **Open**. In the Open File dialog, double-click on the filter name (extension **.FLT**). The Filter Editor window appears as shown in Figure 11.

Figure 11
Filter Editor dialog



Use the following fields to edit information for this filter:

Description: Enter a description for this filter.

Date: Enter up to five sets of date ranges in the form MM/DD. Click on the **Include** or **Exclude** buttons to include or exclude the traffic data that falls within the specified time ranges. For example, to include traffic only for July, enter **07/01** and **07/31** in the first pair of date fields and click on **Include**.

Time: Enter up to five sets of time ranges in the form hh:mm. Click on the **Include** or **Exclude** buttons to include or exclude the traffic data that falls within the selected ranges.

After you have completed your work on this filter, select **Save As** from the File menu to save the new filter. In the Save As dialog, type the new file name, using **.FLT** as the extension. When you return to the report dialog, select the new filter to use with this report.

Deleting a Filter

Use the Delete function to delete a filter file from your system. Select **Delete** from the File menu. The Delete File dialog prompts you to enter the file to delete. Enter the filename and click on **OK**. A second prompt box allows you to verify that you wish to delete the filter. Click on **OK** to delete the filter.

Text File Editor

You may periodically need to view or edit a text file used by Traffic Analysis. For example, you may edit the traffic data file collected from the Meridian 1 to correct any errors before the system processes the file.

To access this editor, select Text File Editor from the Traffic Analysis Maintenance menu. The Windows Notepad window appears. To open a text file in Notepad, select **Open** from the File menu and select the file name from the Traffic Analysis directory. Notepad provides you with standard **Open**, **Save**, **Save As**, and **Close** features, as well as editing and search functions. For complete details on Windows Notepad, refer to the *Microsoft Windows User's Guide*.

Help menu

Use the **Help** menu to access on-line information describing Traffic Analysis operations. You can also obtain help for a specific dialog by clicking on its **Help** button.